

DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 6 • WOODS & PLASTICS

06 50 00 • STRUCTURAL PLASTICS & COMPOSITES

SECTION INCLUDES

Plastic & Composite Railings
Plastic & Composite Decking

RELATED SECTIONS

06 10 00 Rough Carpentry
06 20 00 Finish Carpentry
06 60 00 Plastic and Composite Trim
08 10 00 Doors + Frames
08 50 00 Windows
09 90 00 Painting

PLASTIC & WOOD-PLASTIC COMPOSITE RAILINGS DESIGN

Carefully evaluate costs for plastic and composite railings and confirm market conditions during design. Avoid specifying proprietary products or products without 5-year minimum field tested installation track record.

Specify only established, reputable manufacturers, on whom long-term warranties and replacement parts will be dependent.

Avoid railing "systems" which rely on excessive, labor-intensive disassembly or large-scale replacement of parts to accomplish minor repairs.

Do not specify painted systems whose long-term warranty is contingent upon a painted finish to protect the trim.

Avoid specifying products which possess inherent obstacles to future, cost-effective recycling. (proprietary mixes of organic and inorganic compounds which are difficult to separate or binders with known toxicity).

WOOD-PLASTIC COMPOSITE DECKING DESIGN

Material choices should be based on durability, cost and availability.

Design framing to maximize the spanning capabilities of the decking.

Specify light, high reflectance colors to mitigate heat build-up and thermal movement and fading from ultraviolet light.

Do not specify products containing a high-percentage of recycled wood (greater than 50%). These products are inherently prone to water and UV damage because the wood fillers do not bind completely to the plastics and require painting and ongoing maintenance for protection.

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MATERIALS

Avoid specifying products which possess inherent obstacles to future, cost-effective recycling. (proprietary mixes of organic and inorganic compounds which are difficult to separate or binders with known toxicity).

Do not specify decking whose long-term warranty is contingent upon a painted finish.

Consider using high-density, polyethylene products where wood will be in direct contact with water.

Acceptable manufactures include: Trex,(Trex); Timbertech (Crane Plastic); Fiberon (Fiber Composites); Carefree Compsite, (USPL); Fibrex, Anderson; Boardwalk (Certainteed).

INSTALLATION

Allow for water drainage. Rain water should runoff naturally with standing water.

Application of decking using a blind nailing system is preferred.